yes lite

YADAV ENGINEERING

130/2, P.M. Kempaiah Garden, Near 9th B.T.S Bus Depo. IV Phase,
Peenya Industrial Area, Bangalore - 58. E-mail : kumaryadav_75@yahoo.co.in
Ph. : 41492839, Mobile : 9945095919 | Web : www.yadavengineerings.com

Lighting People

Ref.

Date :

Test Report / Warranty Certificate

To : Prema Electrical Enterprises
Product : 8 mtrs Mini Mast pole
PO Number : Verbal
Project :- BBMP
Sub Project :- JP Park

Quantity : 3
Issued Date : 5.12.2017

SL NO	8 Mtrs Mini Mast Light Pole	Specified Dimension	Result
1	Height	8000	8000
2	Thickness	3	3
3	Bottom dia	130	130
4	Top dia	70	70
5	Base plate (L x W x T)	250 x 250 x 12	250 x 250 x 12
6	Foundation bolts (Dia x Length)	M20x900	M20x900
7	Polygon structure	8 sided	8 sided
8	Hot dip galvanization	70 – 80 microns	75-85 microns
9	SS wire rope	4x7	4x7
10	Wire cable	2.5 Sq mm x 3 core	2.5 Sq mm x 3 core

Note:-

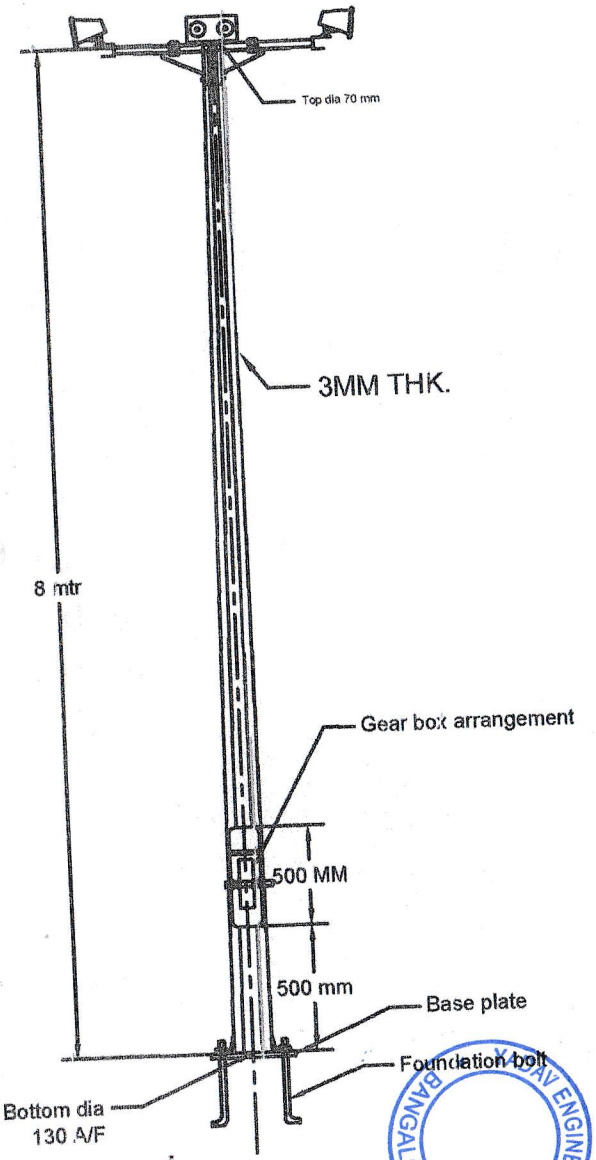
1. All dimensions are in mm.
2. Products are warranted for 15 years for Mini mast structure, 3 years for winch & 5 years for Mini mast accessories from the date of Invoice.

Thanking you

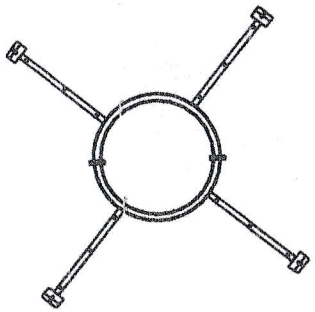
yours faithfully
P.Kumar Yadav
For Yadav Engineering

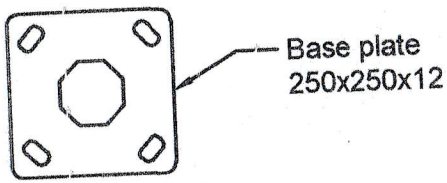
YADAV ENGINEERING BANGALORE-58

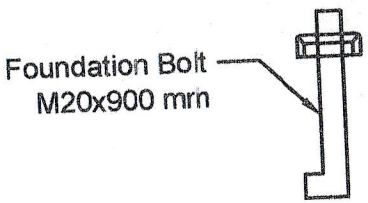
Quantity - 3 Nos



Ring bracket for 4 Flood lights







1. All dimensions are in MM are unless otherwise specified.
2. All the material used are MS.
3. Hot dip galvanized

YADAV ENGINEERING BANGALORE-58

DATE : 9.11.2017

SCALE : NTS

DRAWING TITLE :
8 mtr minimast pole

CONTRACTOR

Preme Electrical Enterprises

COMPANY & MAIL ID

Yadav Engineering
bangalore

ADDRESS

#130/2 kempaiah garden
near 9 th bts depo
IV th phase
PIA , Bangalore -58

JSW STEEL LIMITED

Vijayanagar Works, PO- Vidyanagar, Village-Toranagallu,Dist: Bellary,Karnataka-583275,INDIA
Regd. Office: JSW Centre , Bandra Kurla Complex , Bandra (East) , Mumbai - 400 051

CM/L - 6161963

HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL AS PER IS: 2062_2011

Test Certificate : HR/16-17/0000142532
To M/S. STEEL EXCHANGE HOUSE
NEW NO-30 , OLD NO -72 ,
CHENNAI - 600001 Region: 22

Date : 27.12.2016
SO No./ Item : 400572149 / 70
Product : HR STEEL COILS
PO No. : .

It is certified that the material described below fully conforms to IS: 2062_2011. Chemical composition and Mechanical properties of the product, as tested in accordance with the Scheme of Testing & Inspection contained in the BIS certification marks Licence No. CM/L - 6161963 are as indicated below against each order No. Etc.

(PLEASE REFER TO IS: 2062_2011 FOR DETAILS OF SPECIFICATION REQUIREMENTS)

TEST RESULTS

Specification: BSEN _ 100025			QTY (MT)	C %	Mn %	S %	P %	Si %	Al %	N %	CE Long	TEN DIR	YS (Mpa)	UTS (MPa)	GL (mm)	EL%	Bend Dir	Bend Radius	Bend Result
			Min						0.020				250	410	5.65	23.00		2T	
Cast / Heat No. / Other Coil	Coil Number	Nominal Size (MM) T X W X L UD	Max	0.2300	1.50	0.045	0.045	0.400		0.0120	0.420								
A344037	16167568	3.000 X 1250.0 X Coil P	22.890	0.1480	0.59	0.007	0.020	0.123	0.048	0.0040	0.250	Tr	386	481	5.65	35.00	Tr	2t	Pass
Total Weight in Metric Tonnes			22.890																
Grand Total of Coils/Pkt/Bundles			1																

TEST CERTIFICATE IS ISSUED FOR H.R. Coil
MATERIAL DESPATCHED VIDE GP No. 3346
DT. 31.01.17 QTY. 9.800 MTS
M/s. YADAV Engineering

This is to certify that the above mentioned product produced & supplied by JSW Steel Ltd do not contain any radio active element higher than the natural level and it confirms to Standard Rolling & Weight tolerences. The product or packing material does not contain any hazardous substances as per RoHS norms.

YADAV ENGINEERING BANGALORE-58

Delivery ID : 7038[illegible]7
Excise Inv No. : 1610351[illegible]3
Mode of Transport: Rail
Vehicle No. :

Process Route : BOF-ARS-LHF-CASTER

Legends: BOF = Basic Oxygen Furnace, LHF = Laddle Heating Furnace, CCM = Continuous Casting Machine, RH = RH Degasser, HSM = Hot Strip Mill, HRS = HR Slitter, CTL = Cut To Length, T x W x L= Thickness X Width X Length, Chemistry = Laddle sample analysis , 1Mpa = 1N/mm2, YS = Yield Strength, UTS = Ultimate Tensile Strength, El % - Percent elongation on standard gauge length, UD - Usage Decision, P - Prime, C - Commercial, A- Arising, Pcs - No of Pieces, CE = [C+Mn/6+(Cr+Mo+V)/5+(Ni+Cu)/15], Ln = Longitudinal, Tr = Transverse, Fully Killed Steel

Remarks :

Authorised Signatory
For JSW Steel Ltd.

TATA STEEL

TATA STEEL

Tata Steel Limited
Kalinga Nagar Industrial Complex , Duburi , Jajpur, Odisha 755026
Corporate Identity Number: L27100MH1907PLC000260,Website www.tatasteel.com

IS 2062
CM/L-5200040167

TEST CERTIFICATE

TEST CERTIFICATE NO. : 895916828
DO NO. : 8514260170
INVOICE NO. : 2147074439
MATERIAL No. : 1142664

DESPATCH DATE: 27.07.2018
CUSTOMER CODE: 601611
VEHICLE NO: KA01AH2502
PRODUCT: HOT ROLLED COILS

TEST CERTIFICATE TO:
SHIVA FERRIC PVT LTD OUTER RING ROAD.
B NARAYANAPURA
BANNGALORE CITY 560016

We hereby certify that the above mentioned material is tested in accordance with scheme of testing and inspection contained in BIS certification marks License no. CM/L-5200040167 are as indicated against each section
(Please refer to IS 2062 E250 GRADE BR(HOT ROLLED MEDIUM AND HIGH TENSILE STRUCTURAL STEEL:2011) for details of specification requirements)

TDC No HG98 Q Code THG007
Grade IS 2062 E 250 BR
Section(TxW) 3.000x1250.000mm

Chemical Analysis, Specifications and Other Information

	C	Mn	S	P	Si	Al	N	C Eq	Cr	Cu	Mo	Nb	Ni	Ti	V
	%	%	%	%	%	%	PPM	%	%	%	%	%	%	%	%
Specification Requirements as per TDC No HG98 Min						0.0200									
Specification Requirements as per TDC No HG98 Max	0.2200	1.5000	0.0450	0.0400	0.4000		120	0.4100							
Itm 01 Batch No K824630721 / Mother Coil K824630721 / Cast No A216902 / Tonnage 22.860 / Pcs 1 — Test Results	0.1100	0.7230	0.0065	0.0190	0.0120	0.0350	28	0.2300	0.0160	0.0050	0.0010	0.0010	0.0160	0.0010	0.0010

TDC No HG98
Section (TxW) 3.000x1250.000mm

Mechanical Analysis, Specifications and Other Information

	UTS	EL	BEND	YS
	MPa	%		MPa
Specifcation Requirements as per TDC No HG98 Min	410	23		250
Specifcation Requirements as per TDC No HG98 Max				
Itm 01 Batch No K824630721 / Mother Coil K824630721 / Cast No A216902 / Tonnage 22.860 / 1 — Test Results	469	35	OK	365

3953

Route-BOF>CASOB>CC>HSM
transverse

1 MPa = 1 N/mm2
YS = Yield Strength
UTS = Ultimate Tensile Strength
El= % elongation on standard gauge length
TxWxL = Thickness x Width X Length
CE = Carbon Equivalent

BANGALORE YADAV ENGINEERING

Steel is fully Aluminium killed
Material is ROHS Compliant
Tensile Sample testing transverse to rolling

Material clearance date
K824630721-26.07.2018

Head Quality Assurance
TATA STEEL LIMITED

Metcraft Engineering
Harohalli Industrial Area, Bangalore

GALVANISING TEST REPORT

Sr.No: MET/QC/2017-18/

Date: 12.06.2017

CUSTOMER NAME: YADAV ENGINEERING	P.O.NO.		LOT QTY.(M.T/ Kgs)	2.590 MT
	INVOICE No/ Date	211/ 12.06.2017	NUMBERS	30 Nos
	Material description	GI POLES	SAMPLING Size	As per IS4759:1996 sampling plan table -2

I.DESTRUCTIVE TESTS

1.PREECE TEST — IS 2633:1986 (Standard: No copper deposit to be found)

Sr.No. of Sample	Surface Area (test piece)	No. of one minute dip	Remarks
1	50x3x100 mm long	4 DIP	No copper deposition found

2.STRIPPING TEST — IS 6745:1972(standard: 610 gms/sq.m)

Type of the sample (Test piece)	Surface Area	Galvanized sample wt.	Black weight	Coating weight	Remarks	
50x3x100 mm long	0.0109	124.9	117.75	7.15	655.96	gms/metersquare

II.NON DESTRUCTIVE TESTS

1.HAMMER TEST/KNIFE TEST — IS 2629:1985 (Standard:No peeling to be observed)

Type of the sample (Test piece)	TESTS AREAS			
	1	2	3	Remarks
50x3x100 mm long	no peel off	no peel off	no peel off	no peeling is found

2.ELCOMETER TEST — IS 3203 :1982(Standard:86 microns ,Minimum)

No. of Sample	Reading in Microns at the test areas								Remarks
	A	B	C	D	E	F	G	H	
1	93	86	89	90	101	97	86	89	accepted
2	101	93	90	104	91	92	100	95	accepted
3(Up to 25 nos)	98	101	98	94	99	98	94	100	accepted
4	99	101	102	97	101	100	90	97	accepted
5 (26 to 100 nos)	87	86	97	92	93	89	100	92	accepted
6									
7									
8[101 to 150nos]									
10									
11									
12									
13[151to500nos]									

	Quantity Accepted	Quantity to be	accepted
30 Nos	Accepted	nill	accepted

Note:Testing is done on Test piece ,Which is attached to the principle material during hot dip galvanizing.This is done as the principle material is large size, which cannot be dipped into copper sulphate solution to conduct preece test and during the stripping test a layer of zinc is removed from the material. Hence the test piece is used for this test also.

Elcometer test is conducted on principal material.

Inspected By

Witnessed by(Customer)

For Metcraft Engineering

QC/HDG/F-03,Rev 0,2.7.2012

QA Engineer